

O I P E

Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION
(Use several sheets if necessary)

Docket Number 300622002610	Application Number 09/825,621
Applicant:	Christopher REEVES et al.
Filing Date April 3, 2001	Group Art Unit 1652
Mailing Date April 5, 2002	

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	10/1989	4,874,748	Katz et al.	514	39	
	2.	11/1991	5,063,155	Gon et al.	495	76	
	3.	03/1992	5,098,837	Berkman et al.	435	172.3	
	4.	09/1992	5,149,639	Katz et al.	435	76	
	5.	02/1993	5,189,042	Goulet et al.	514	291	
Av	6.	09/1997	5,672,491	Khosla et al.	435	148	
Av	7.	01/1998	5,712,146	Khosla et al.	435	252.35	APP 17 2001
Av	8.	10/1998	5,824,513	Katz et al.	435	76	
Av	9.	11/1998	5,830,750	Khosla et al.	435	252.35	
Av	10.	12/1998	5,843,718	Khosla et al.	485	69.1	RECEIVED
Av	11.	10/1999	5,962,290	Khosla et al.	435	183	TECH CENTER 1600/2900
Av	12.	02/2000	6,022,731	Khosla et al.	435	252.35	
Av	13.	06/2000	6,077,696	Khosla et al.	435	135	
Av	14.	11/2000	6,150,513	Wu	536	23.2	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
Av	15.	07/05/1989	EP 0323042A	EPO			
Av	16.	02/28/1990	EP 0356399A	EPO			
Av	17.	01/02/1992	EP 0463690A	EPO			
	18.	07/1993	WO 93/13663	WIPO			
	19.	03/1995	WO 95/08348	WIPO			
	20.	12/1996	WO 96/40962	WIPO			
	21.	01/1997	WO 97/02258	WIPO			
	22.	06/1998	WO 98/27203	WIPO			

EXAMINER: *Amelia Turner*DATE CONSIDERED: *4-4-2003*

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>				Docket Number 300622002610	Application Number 09/823,621
				Applicant	Christopher REEVES et al.
				Filing Date April 3, 2001	Group Art Unit 1652
				Mailing Date April 5, 2002	

23	11/1998	WO 98/49315	WIPO			
24.	04/2000	WO 00/30601	WIPO			

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, etc.)

Examiner Initials	Ref. No.	Title
	25.	Caffrey et al., 1992, FEBS Letters 304: 205
Ar	26.	Chem T.S. et al. (1992). "Microbial Transformation of Immunosuppressive Compounds. II. Specific desmethylation of 13-methoxy group of FK 506 and PR 9500520 by Actinomycete sp. ATCC 53828," <i>J Antibiot</i> 45(4):577-580.
Ar	27.	Dumont F.J. et al. (1992). "The Immunosuppressive and Toxic Effects of FK-506 Are Mechanically Related: Pharmacology of a Novel Antagonist of FK-506 and Rapamycin," <i>J of Exp Medicine</i> 176(3):751-760.
	28.	Fu et al., 1994, <i>Biochemistry</i> 33: 9321-9326
Ar	29.	Iwasaki et al., (1993) <i>Drug Metabolism and Disposition</i> 21:971-977
Ar	30.	Iwasaki et al., (1995) <i>Drug Metabolism and Disposition</i> 23:28-34
Ar	31.	Kawai et al., (1993) <i>FEBS Letters</i> 316(2):107-113
Ar	32.	Khosla C. (1997). "Harnessing the Biosynthetic Potential of Modular Polyketide Synthases," <i>Chemical Reviews</i> 97(7):2577-2590.
	33.	McDaniel et al., 1993, <i>Science</i> 262: 1546-1550
Ar	34.	Motamedi et al., (1996) <i>J. Bacteriol.</i> 178:5243-5248
Ar	35.	Motamedi et al., (1997) <i>Eur. J. Biochem.</i> 244:78-80
Ar	36.	Motamedi and Shafiee, (1998) <i>Eur. J. Biochem.</i> 256:528
Ar	37.	Reynolds K.A. et al. (1997). "Rapamycin, FK506, and Ascomycin-related Compounds," <i>Drugs Pharm Sci</i> 82:497-520.
	38.	Rohr, 1995, <i>Angew. Chem. Int. Ed. Engl.</i> 34(6): 881-888
Ar	39.	Shafiee A. et al. (1993). "Enzymatic synthesis and Immunosuppressive Activity of Novel Desmethylated Immunomycins (Ascomycins)," <i>J Antibiot</i> 46(9):1397-1405.
Ar	40.	Stassi D.L. et al. (1998). "Ethyl-substituted Erythromycin Derivatives Produced by Directed Metabolic Engineering," <i>Proc Natl Acad Sci USA</i> 95 (13):7305-7309.
Ar	41.	Wu et al., (2000) <i>Gene</i> 251:81-90

EXAMINER: <i>Amelia Jurew</i>	DATE CONSIDERED: <i>4-4-2003</i>
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EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

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PTO/SB/08 (2-92)
Sheet 1 of 1

Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 300622002600	Application Number 09/410,551
Applicant	Christopher REEVES et al.
Filing Date October 1, 1999	Group Art Unit 1643
Mailing Date January 8, 2001	

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
KK	1.	11/21/2000	6,150,513	Wu	536	23.2	

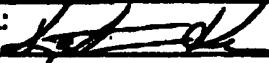
FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title

EXAMINER: 

DATE CONSIDERED: 4/12/01

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

PTO/SB/08 (2-92)
sd-25059

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <small>(Use several sheets if necessary)</small>		Docket Number 300622002600	Application Number Unassigned
		Applicant	Christopher REEVES et al.
		Filing Date October 1, 1999	Group Art Unit Unassigned

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
KK	1.	02/23/93	5,189,042	Goulet et al.	—	—	
KL	2.	09/30/97	5,672,491	Khosla et al.	—	—	
KK	3.	01/27/98	5,712,146	Khosla et al.	—	—	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO

OTHER DOCUMENTS*(including author, title, Date, Pertinent Pages, Etc.)*

Examiner Initials	Ref. No.	Title
KL	4.	Iwasaki et al., 1995, Further metabolism of FK506 (Tacrolimus); Identification and biological activities of the metabolites oxidized at multiple sites of FK506, <i>Drug Metabolism & Disposition</i> 23: 28-34
KL	5.	Iwasaki et al., 1993, Isolation, identification, and biological activities of oxidative metabolites of FK506, a potent immunosuppressive macrolide lactone, <i>Drug Metabolism & Disposition</i> 21: 971-977
KK	6.	Kawai et al., Jan. 1993, Structure-activity profiles of macrolactam immunosuppressant FK-506 analogues, <i>FEBS Letters</i> 316(2): 107-113
KL	7.	Motamedi et al., 1998, The biosynthetic gene cluster for the macrolactone ring of the immunosuppressant FK506, <i>Eur. J. Biochem.</i> 256: 528-534
KK	8.	Motamedi et al., 1997, Structural organization of a multifunctional polyketide synthase involved in the biosynthesis of the macrolide immunosuppressant FK506, <i>Eur. J. Biochem.</i> 244: 74-80
KK	9.	Motamedi et al., 1996, Characterization of methyltransferase and hydroxylase genes involved in the biosynthesis of the immunosuppressants FK506 and FK520, <i>J. Bacteriol.</i> 178: 5243-5248

EXAMINER: (examiner)

DATE CONSIDERED:

4/21/01

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Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Docket Number 300622002609	Application Number 09/410,551
		Applicant Christopher REEVES et al.	
		Filing Date October 1, 1999	Group Art Unit 1652
		Mailing Date April 22, 2002	

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U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date if Appropriate
KK	1.	10/1989	4,874,748	Katz et al.	514	29	
	2.	11/1991	5,063,155	Cox et al.	435	76	
	3.	03/1992	5,098,837	Beckmann et al.	435	172.3	
	4.	09/1992	5,149,639	Katz et al.	435	76	
▼	5.	10/1998	5,824,513	Katz et al.	435	76	

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
KK	6.	07/1993	WO 93/13663	WIPO			
	7.	03/1995	WO 95/08548	WIPO			
	8.	12/1996	WO 96/40968	WIPO			
	9.	01/1997	WO 97/02358	WIPO			
	10.	06/1998	WO 98/27203	WIPO			
	11.	11/1998	WO 98/49315	WIPO			
▼	12.	04/2000	WO 00/20601	WIPO			

OTHER DOCUMENTS

(Including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
KK	13.	Caffrey et al., FEBS Letters (1992) 304:205
	14.	Fu et al., Biochemistry (1994) 33:9321-9326
	15.	McDaniel et al., Science (1993) 262:1546-1550
▼	16.	Rohr, Angew. Chem. Int. Ed. Engl. (1995) 34(8):881-888

EXAMINER:

Katz et al.

DATE CONSIDERED:

7/31/02

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